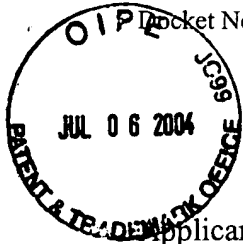


IFW



Docket No. 132407-3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Dennis Michael Gray et al.)
Serial No.: 10/815,258) Group Art Unit: 1762
Filing Date: 3/31/2004) Examiner:
For: EROSION RESISTANT)
COATINGS AND METHODS)
THEREOF)

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.56, 1.97 AND 1.98

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

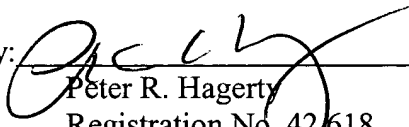
In compliance with the duty to disclose, submitted herewith is form PTO-A820 (PTO-1449) listing publication(s) of which those designated by 37 CFR § 1.56 are aware. Copies of the non-United States patents or published applications are enclosed.

The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made, or an admission that the information cited is, or is considered to be, material to patentability.

Respectfully submitted,

CANTOR COLBURN LLP

By:


Peter R. Hagerty
Registration No. 42,618

Date: July 1, 2004
Customer No. 23413
(860) 286-2929

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT**(Under 37 CFR 1.97(b) or 1.97(c))**

Docket No.

132407-3

In Re Application Of: **Dennis Michael Gray et al.**

Serial No.

10/815,258

Filing Date

3/31/2004

Examiner

Group Art Unit

1762

Title: **EROSION RESISTANT COATINGS AND METHODS THEREOF**

Address to:

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

37 CFR 1.97(b)

1. ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

37 CFR 1.97(c)

2. ☐ The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:

☐ the statement specified in 37 CFR 1.97(e);**OR**☐ the fee set forth in 37 CFR 1.17(p).

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
132407-3

In Re Application: Dennis Michael Gray et al.

Serial No.

10/815,258

Filing Date

3/31/2004

Examiner

Group Art Unit

1762

EROSION RESISTANT COATINGS AND METHODS THEREOF

Payment of Fee

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- ☐ A check in the amount of _____ is attached.
- ☒ The Director is hereby authorized to charge and credit Deposit Account No. **06-1130**
as described below.
- ☐ Charge the amount of _____
- ☐ Credit any overpayment.
- ☒ Charge any additional fee required.

Certificate of Transmission by Facsimile*

I certify that this document and authorization to charge deposit account is being facsimile transmitted to the United States Patent and Trademark Office (F:

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I certify that this document and fee is being deposited on **7/1/2004** with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Rebecca L. Blake
Signature of Person Mailing Correspondence

Rebecca L. Blake

Typed or Printed Name of Person Mailing Certificate

***This certificate may only be used if paying by deposit account.**

Peter R. Hagerty
Signature

Dated: **July 1, 2004**

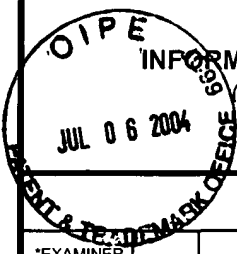
Peter R. Hagerty

Registration No. 42,618

Customer No. 23413

Telephone No. 860-286-2929

CC:



INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY DOCKET NO.

132407-3

SERIAL NO.

10/815,258

Dennis Michael Gray et al.

FILING

3/31/2004

GROUP

1762

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,439,237	3/27/1984	Kuminitzu et al.			
	5,206,083	4/27/1993	Raj et al.			
	5,230,755	7/27/1993	Pierantoni et al.			
	5,759,216	6/2/1998	Kanada et al.			
	5,932,293	8/3/1999	Belashchenko et al.			
	6,004,372	12/21/1999	Quets			
	US 6,245,390 B1	6/12/2001	Baranovski et al.			
	US 6,365,274 B1	4/2/2002	Scheckenbach et al.			
	US 6,513,728 B1	2/4/2003	Hughes et al.			
	US 6,562,480 B1	5/13/2003	Stong et al.			
	US 2002/0064667 A1	5/30/2002	Scheckenbach et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	GB 2 024 260 A	9 Jan 1980	Great Britain				✓
	WO 01/92601 A1	06.12.2001	PCT				✓
	EP 0 224 827 B1	10.06.1987	European				✓
	EP 1 217 095 A1	26.02.2002	European				✓
	EP 1 111 089 A1	27.06.2001	European				✓

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		JP 08-253877; Date of Publication of Application: 01.10.1996; Patent Abstracts of Japan (2 pgs)
		WO0192601; 2001-12-06; Abstract Only (1 pg)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>	ATTY DOCKET NO. 132407-3	SERIAL NO. 10/815,258
	Dennis Michael Gray et al.	
	FILING 3/31/2004	GROUP 1762

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

			EP1111089; 2001-06-27; Abstract Only (1 pg)
			Lee et al., "A Study on the Mechanism of Formation of Electrocodeposited Ni-diamond Coatings", Surface and Coatings Technology 148 (2001) 234-240

EXAMINER	DATE CONSIDERED
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>	ATTY DOCKET NO. 132407-3	SERIAL NO. 10/815,258
	Dennis Michael Gray et al.	
	FILING 3/31/2004	GROUP 1762

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

			Guan et al, "Ni-diamond Interactions", Materials Chemistry and Physics 46 (1996) 230-232
			Horlock et al., "Thermally Sprayed Ni(Cr)-TiB2 Coatings Using Powder Produced by Self-Propagating High Temperature Synthesis: Microstructure and Abrasive Wear Behaviour", Materials Science and Engineering A336 (2002) 88-98

EXAMINER	DATE CONSIDERED
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INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>		Docket Number (Optional) 132407-3	Application Number 10/815,258
		Applicant(s) Dennis Michael Gray et al.	
		Filing Date 3/31/2004	Group Art Unit 1762

*EXAMINER INITIAL	OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>
	Sikder et al., "Surface Engineering of Metal-Diamond Composite Coatings on Steel Substrates Using Chemical Vapour Deposition and Electroplating Routes" Surface and Coatings Technology 114 (1999) 230-234
	Sikder et al., "Chemical Vapour Deposition of Diamond on Stainless Steel: The Effect of Ni-Diamond Composite Coated Buffer Layer" Diamond and Related Materials 7 (1998) 1010-1013
	G. Meaden et al., "Laser Cutting of Diamond Fibres and Diamond Fibre/Titanium Metal Matrix Composites" Diamond and Related Materials 5 (1996) 825-828
	Dai et al., "Effects of Rare Earth and Sintering Temperature on the Transverse Rupture Strength of Fe-Based Diamond Composites" Journal of Materials Processing Technology 129 (2002) 427-430
	Reddy et al., "A Study on the Wear Resistance of Electroless Ni-P/Diamond Composite Coatings" Wear 239 (2000) 111-116
	Ian Meredith, "The Wear Resistant Design and Rebuild of the Rangipo Francis Turbines", 10th HPEE Conference, 19-24 May 2002 Snowy Hidro AUS (19 pgs)
	Malcolm et al., "Ashes to ashes?" AUSTRALASIA Rangipo Rebuild, International Water Power & Dam Construction February 1997 (3 pgs)
	Alec van Rossen, "Refurbishing and Modifying Rangipo Hydro Turbines-To Survive Volcanic Ash In The Waterway" URHP, Montreal, 1997 (10 pgs)
EXAMINER	DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.